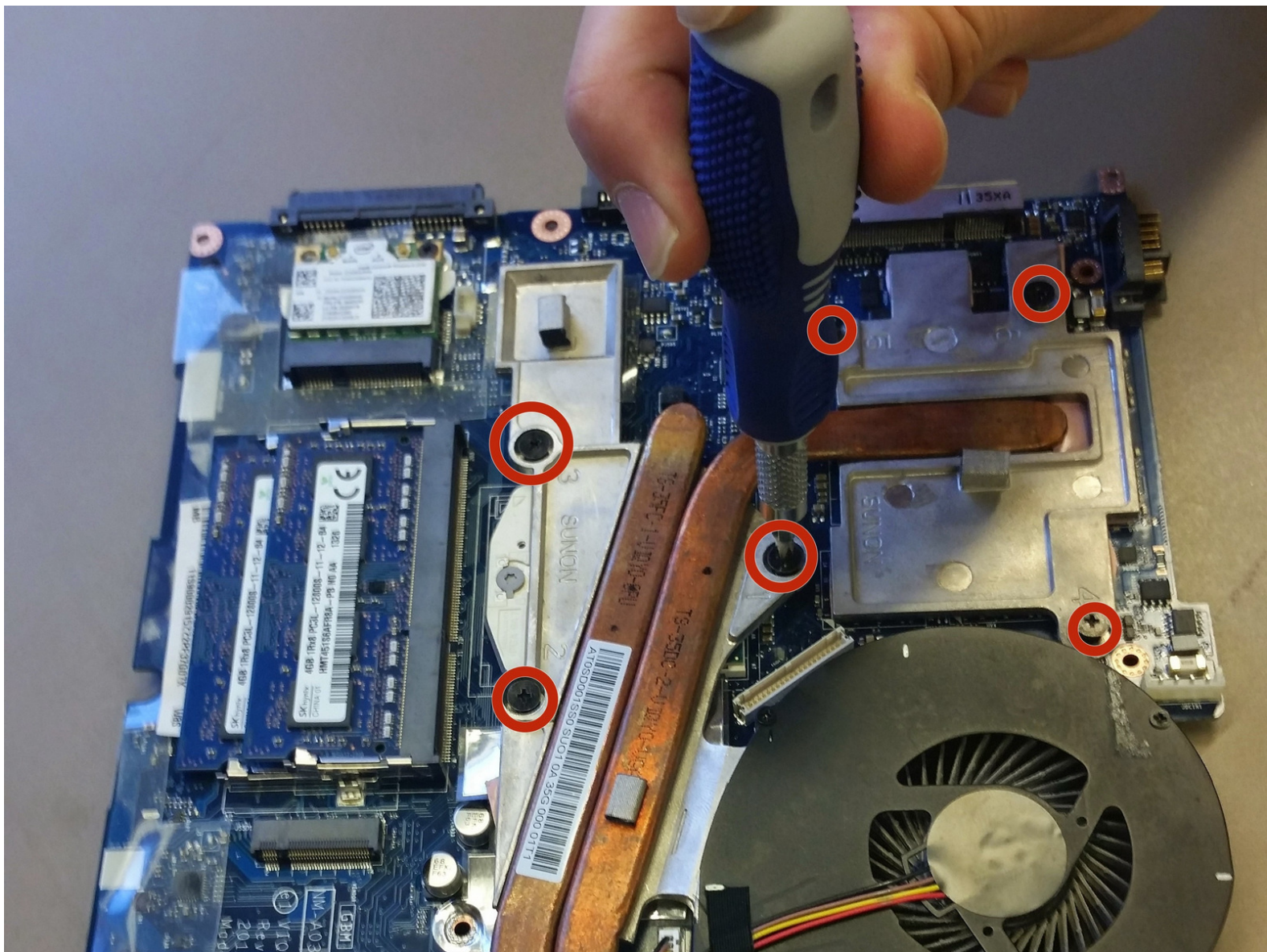




# Lenovo Y410P Cooling Fan Replacement

It is important that the laptop has a working cooling fan. It prevents overheating which can damage fragile and expensive hardware. This guide will remove the heatsink and apply new thermal paste

Written By: Eric Chen

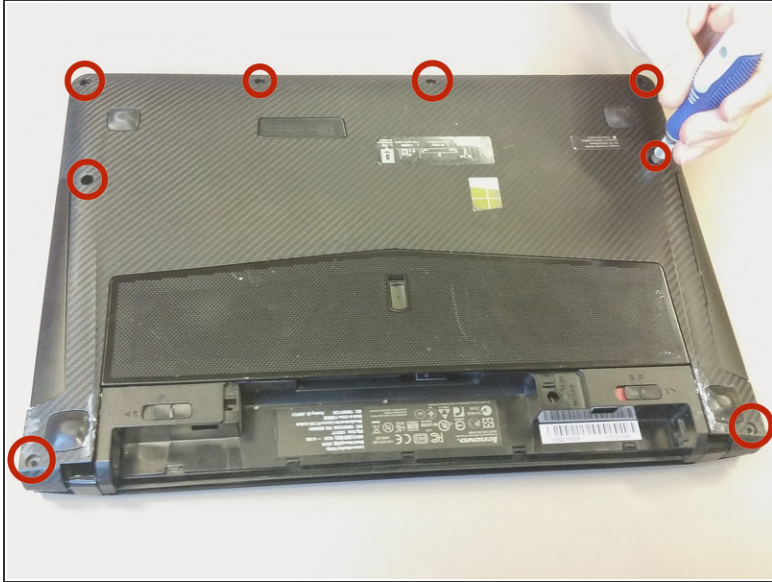




## TOOLS:

- [Phillips #0 Screwdriver](#) (1)
  - [Phillips #00 Screwdriver](#) (1)
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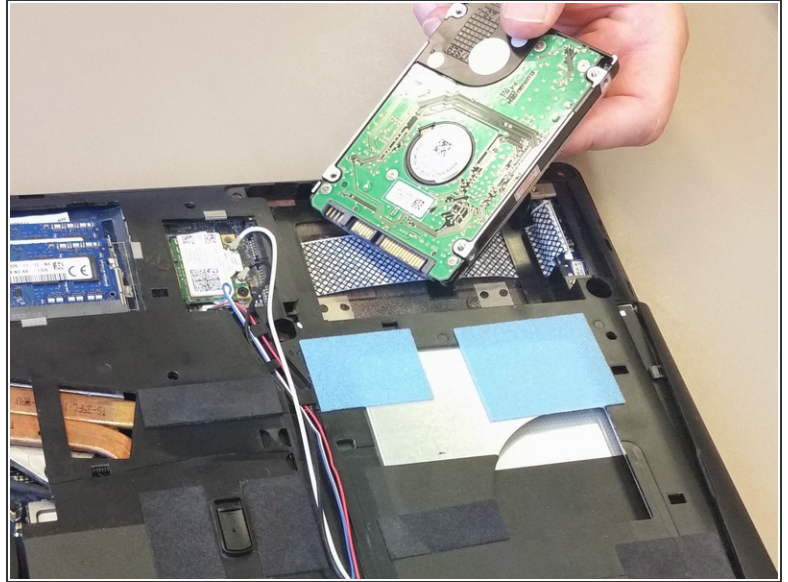
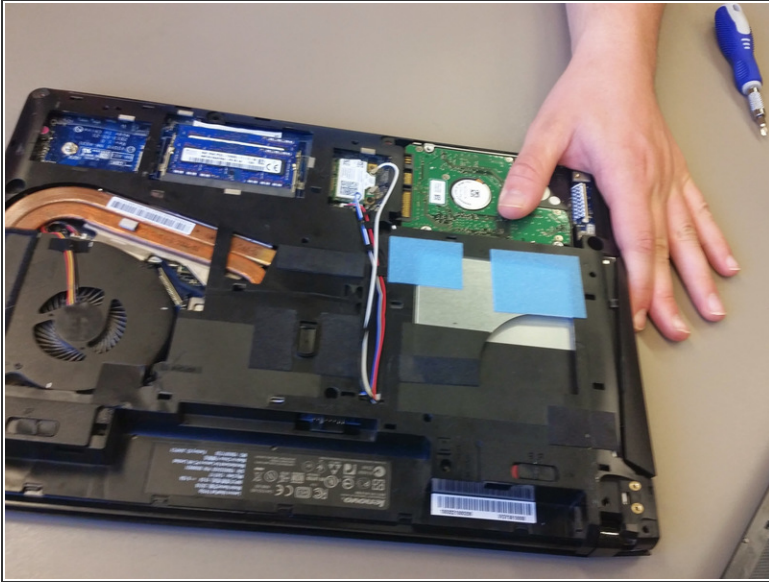
## Step 1 — Removal of Bottom Panel



- Remove eight M2.5 x 8mm Phillips head screws, using a Phillips #0 screwdriver, at the specified locations.
- Lift the bottom cover off and set it aside.

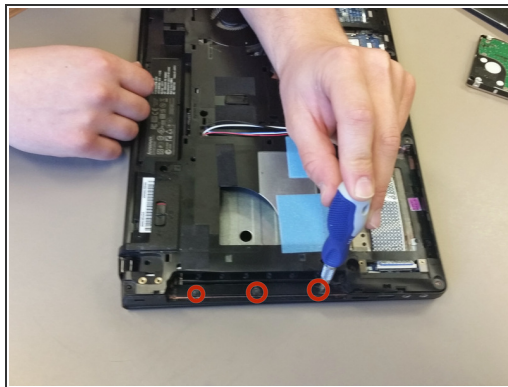
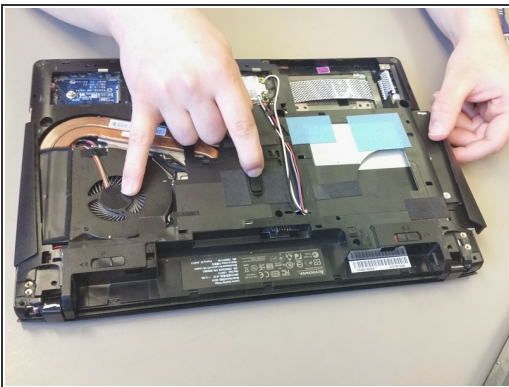


## Step 2 — Removal of Hard Drive



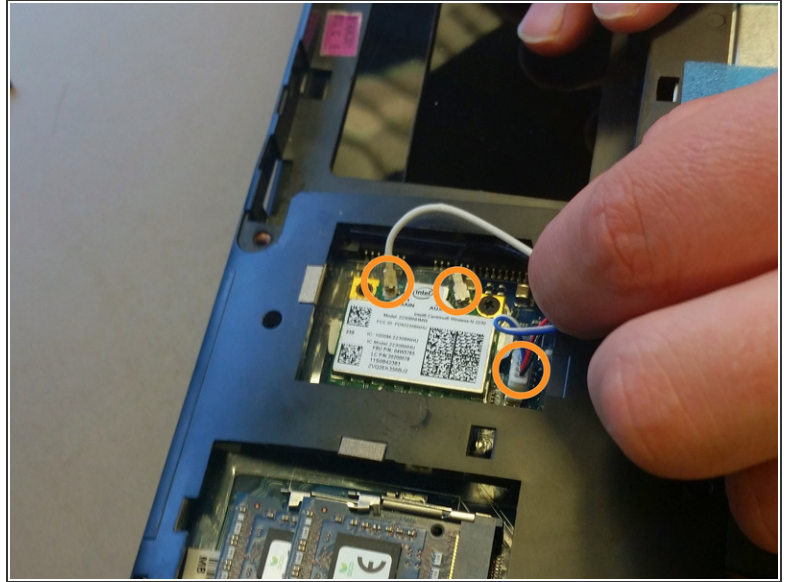
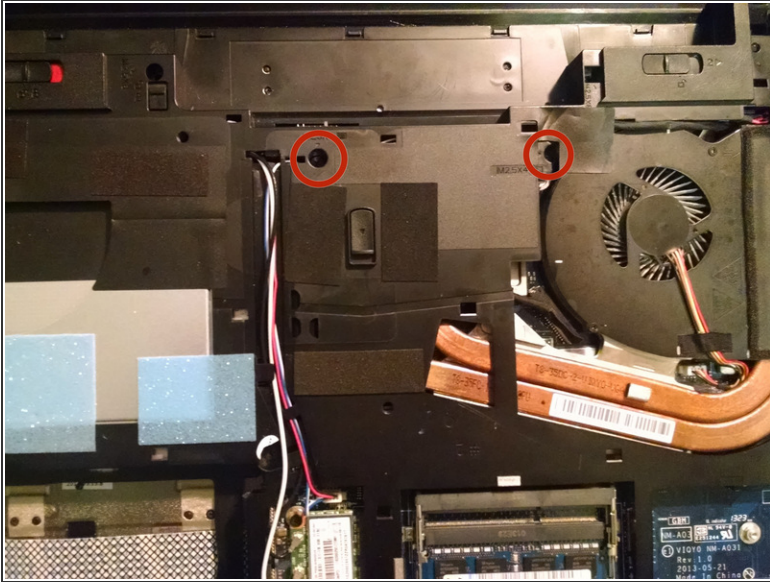
- Remove the two M2.5x4mm screws using a Phillips #0 screwdriver.
  - Slide the hard drive out of the casing.
- ⚠ Be careful when handling the hard drive, rough impacts may cause data loss.

## Step 3 — Remove Optical Drive



- With the laptop's bottom facing up, pull the optical drive release lever back and pull the optical drive out.
- Unscrew the three M2x3mm Phillips head screws shown.
- At the front edge of the laptop, empty the SD card holder by pressing on the card. This will allow for further disassembly in later steps.

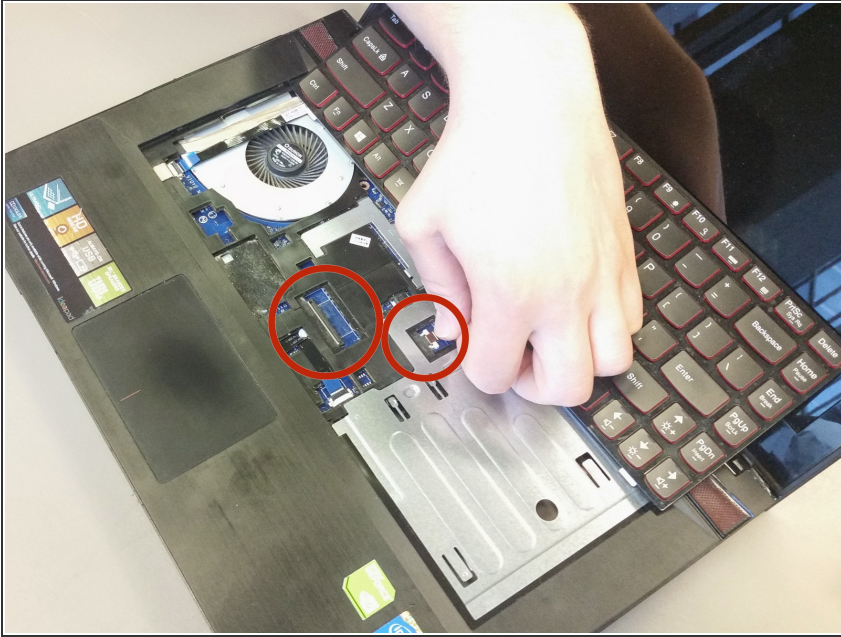
## Step 4 — Remove Keyboard and Cables



- Remove the two M2.5 x 6mm Phillips screws, using Phillips #00 screwdriver.
- Remove the WiFi cables and the sound connector. (3 wires)

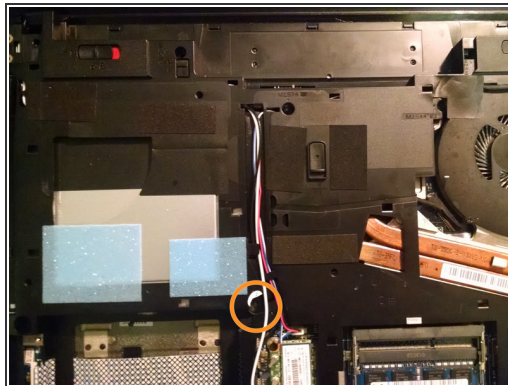


## Step 5



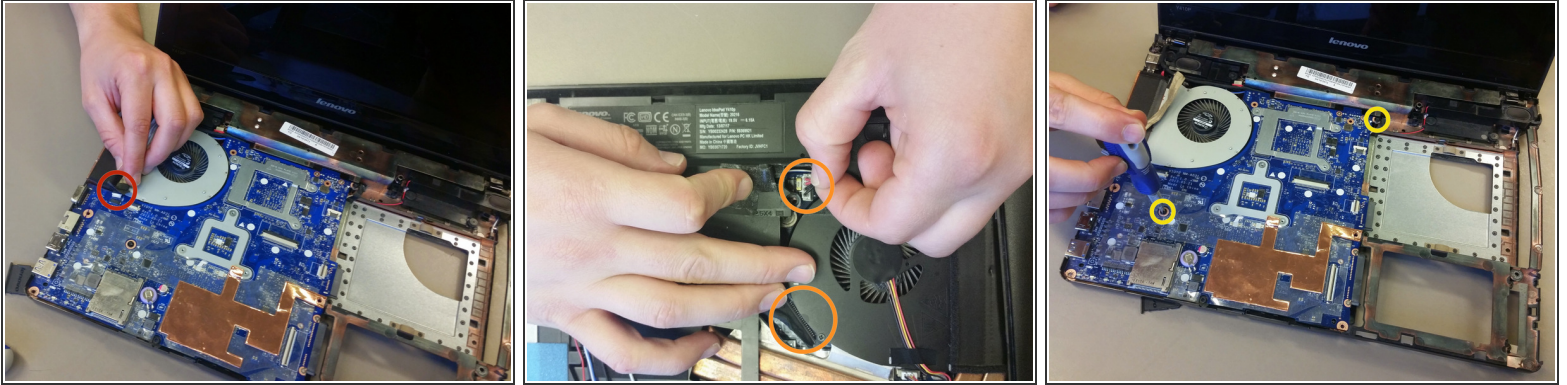
- Open the laptop hinge, tip the laptop onto its side, and use the back end of the screwdriver to push the keyboard out from the optical drive area.
- Turn the laptop right side up and pry the keyboard up slowly until it is clear of the case.
- ⚠ Be careful of the ribbon cable when removing the keyboard. The ribbon is still attached.
- Detach the ribbon cables by opening the specified latches.

## Step 6 — Removal of Palm Rest



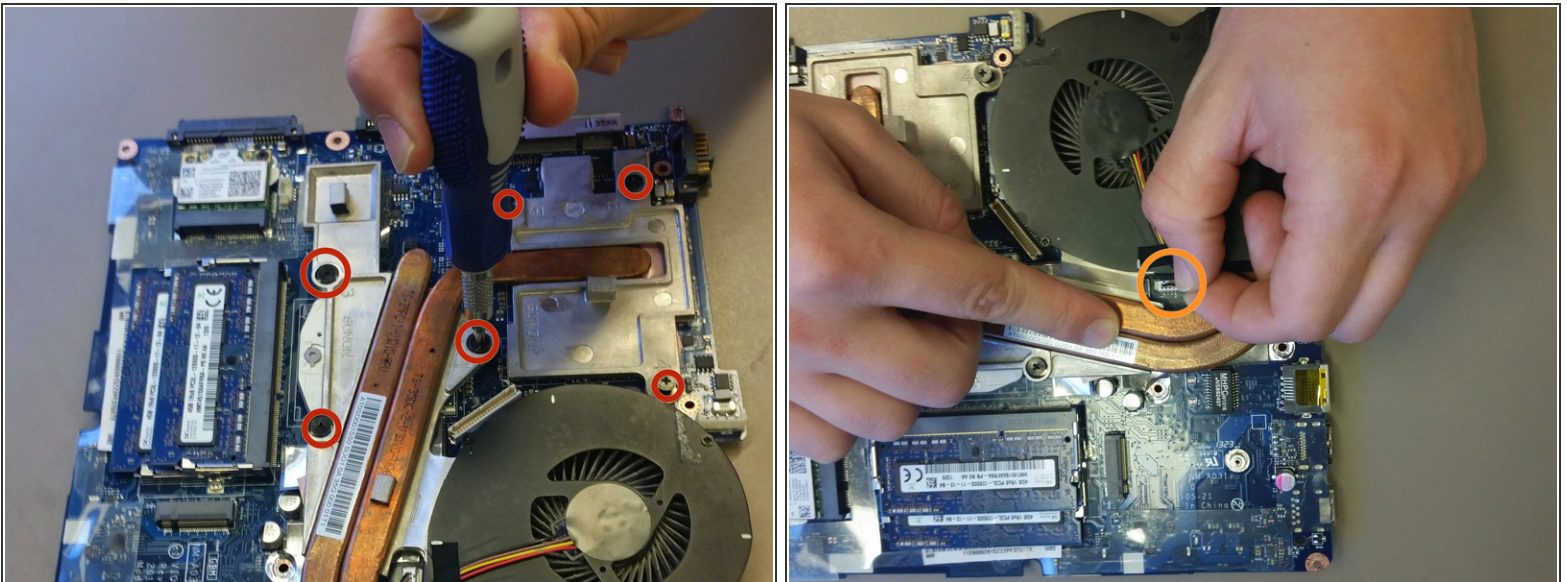
- Detach the ribbon cables by opening the specified latches.
- Turn the laptop upside down and remove the M2.5x8mm screw with Phillips #0 screwdriver.
- Turn the laptop on its side and pry the bottom from the top.
- ⚠ Only partially remove the palm rest, there is still a ribbon cable attached underneath it.
- Remove the ribbon cable by opening its respective latch.

## Step 7 — Removal of Motherboard



- Remove the specified cable on top of the motherboard.
- Flip the laptop over, and remove the specified cables.
- Remove the two M2.5x4mm screws with a Phillips #0 screwdriver
- Remove the motherboard with hands.

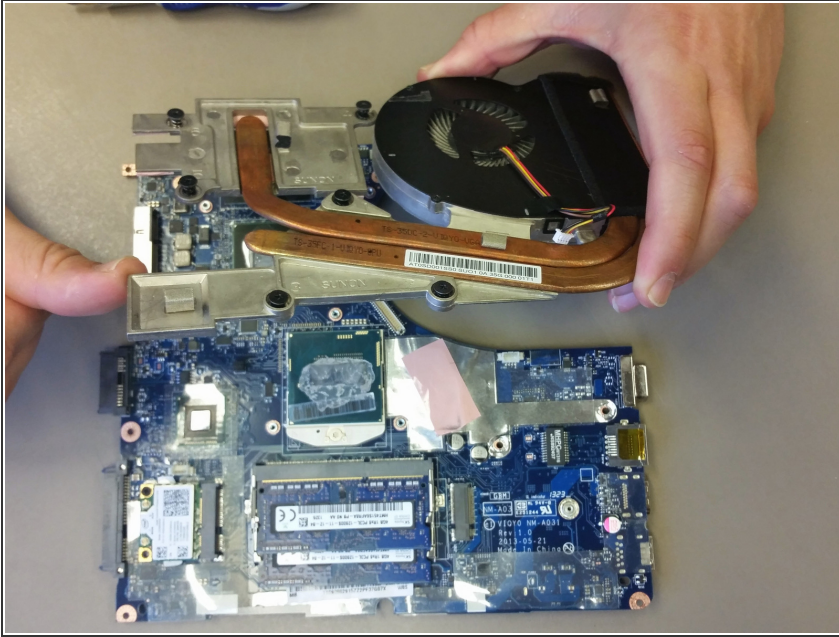
## Step 8 — Unscrew Heatsink



- Unscrew (adequately loosen) the six heatsink screws in the order written on the heatsink. Use a Phillips #0 screwdriver.
  - These six screws are built into the heatsink and will not detach from it.
- Unplug the fan cable from the motherboard.

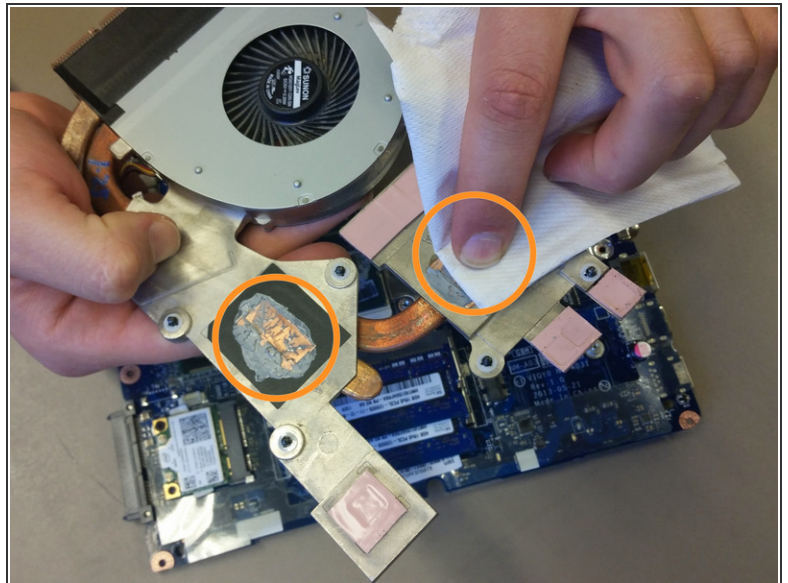
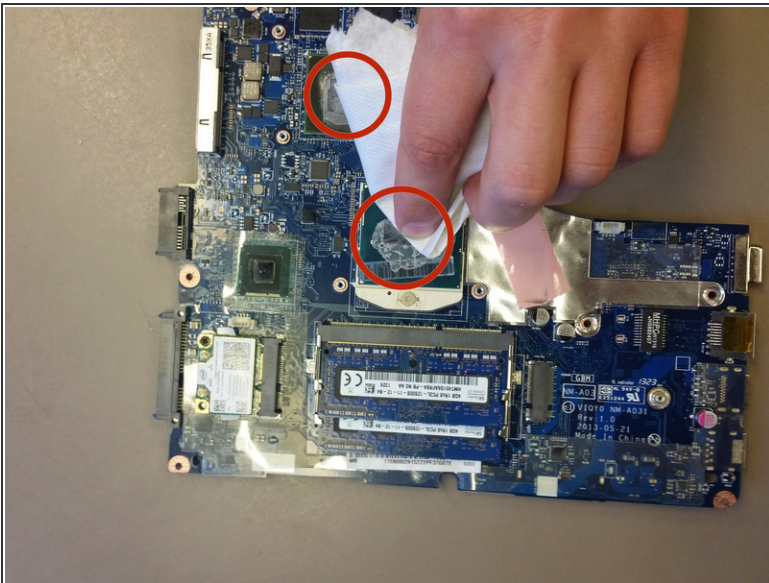


## Step 9 — Remove the Heatsink



- Gently remove the heatsink with your hand
- ⓘ There may be some resistance due to dried up thermal paste, simply pry the heatsink from the board.

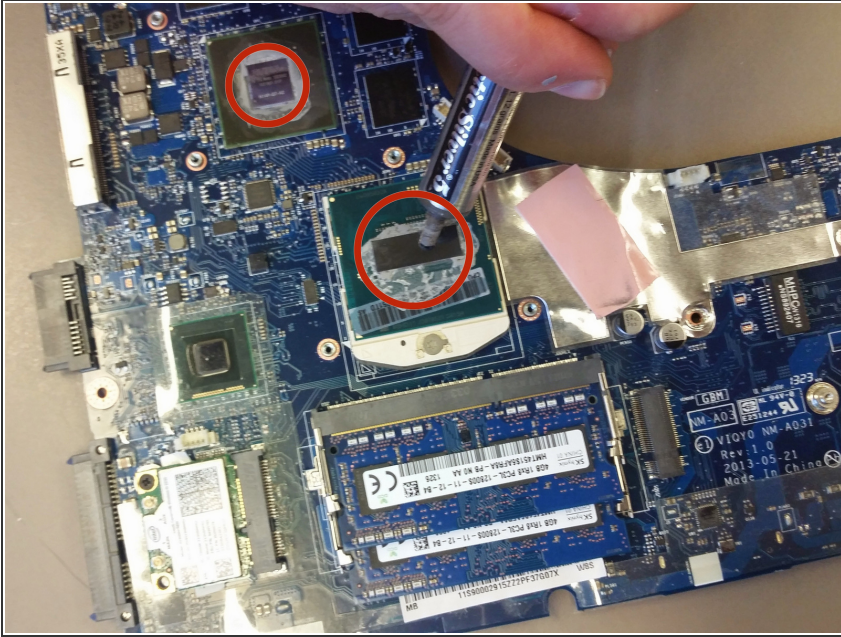
## Step 10 — Remove Old Thermal Paste



- Find a paper towel or tissue and gently wipe the old thermal paste from the CPU and GPU
- Now wipe the old thermal paste from the underside of the heatsink
- ⚠ Be careful not to mess up any of the pink thermal pads, these are important for other chips



## Step 11 — Apply New Thermal Paste



- Apply new thermal paste to the CPU and GPU
- ⓘ Only apply a small bead approximately the size of a pea

To reassemble your device, follow these instructions in reverse order.

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